

Accelerated establishment of a connection between a number of mobile radio users

The invention relates to methods and devices for establishing a connection between a mobile radio user initiating establishment of the connection and a further mobile radio user or further mobile radio users from a group of mobile radio users.

WO 02/085050 discloses the transmission of useful data via a useful data channel.

“Digital Cellular Telecommunications System (Phase 2+), Universal Mobile Telecommunication System (UMTS), General Packet Radio Service (GPRS) Service Description, Stage 2 (3GPPTS 23.060 version 5.2.0 release 5)” ETSI TS 123060 V5.5.0 discloses the provision of a second PDP context with a different QUS profile in addition to an existing RTP context between two users.

The invention relates to services, for which connections have to be established as quickly as possible, for example a so-called push to talk service for a mobile radio network, in which a mobile radio user can initiate a connection to predefined (and also currently available) members of a group of mobile radio users (and in some instances also fixed-network users) by means of an input, for example pushing a button, at their mobile station.

Such connections can be established in different mobile radio networks, such as GSM/CDMA/TDMA/WCDMA/TDCCMA/TDCSMA/4G mobile radio networks. Members of a group can also be mobile radio users, who communicate via different mobile radio networks and radio interfaces with the other members of the group.

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To establish such a connection, a channel used for the transmission of signaling data can be established in the form of a PDP context between a member of the group and a mobile radio network for the transmission of signaling data and a voice channel in the form of a further PDP context can be established for the transmission of voice data between the mobile radio terminal and a mobile radio network. Signaling for session control purposes (including connection establishment and processing) can take place via the PDP context provided for signaling. The voice channel in the form of a further PDP context can transmit voice data between at least one mobile radio user and a mobile radio network (for forwarding to the other mobile radio users of a group) respectively. The PDP context to be provided for transmitting voice data can be of better quality (in respect of delay and/or loss rate).

The object of the present invention is to allow uninterrupted establishment of a connection between a mobile radio user and members of a group in the simplest and most efficient manner